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GX 339-4

B. A. Harmon, G. J. Fishman, W. S. Paciesas, and M. Finger, Marshall Space Flight Center. NASA, report for the Burst and Transient Source Experiment (BATSE)/Compton Observatory Team: "The black-hole candidate GX 3394 has entered its hard (low) emission state, being detected by earth occultation beginning about mid-September. Its intensity has increased very gradually and is currently at - 0.24 Crab (Oct. 17-25) in the 20- to 300-ke V band. The spectrum is very similar to the 1991 hard-state outburst (1A *UC* 5327), extending to at least 230 keV, with a power law index of -2.1 ± 0.06. A better fit is obtained, however, with a Comptonization model, as the spectrum becomes steeper above 100 keV. The Sunyaev-Titarchuk model fit parameters for Oct. 17-25 are $kT = 39 \pm 5$ keV and $\gamma = 2.5 \pm 0,5$. Identification of GX 339-4 as the flaring source was obtained by fitting for the time of occultation edges, yielding a 1σ error in location of+ 0?35 for α and ±0°2 for δ. Monitoring of the source intensity and spectrum is continuing. "

JUPITER

G. Orton, P. Yanamandra-Fisher. and D. Griep, NASA Infrared Telescope Facility, report: "Eighteen-jtm images of Jupiter on Oct. 26.68-26.78 UT show that the South Equatorial Belt (SEB) has resumed a 150-mbar temperature equal 10 that of the NEB, recovering from prior cooler temperatures which lasted -- 1 yr. Infrared indicators at 8.57 and 4.9 μm show the SEB remaining unusually cloudy, as it has been since early 1992. If it behaves as in 1988-1990. the SEB warming signals the recovery of its cloud properties to a more typical state within 6-9 months. "

NO *VASAGITTARII 1992 No. 2*

Further photometry (cf. *IAUC* 5633) by A. C. Gilmore, Mount John University Observatory: Oct. 17.42 UT, $V = 12.62 \pm 0.08$, $B-V = +0.21 \pm 0.08$, $U-B = -0.26 \pm 0.08$, $V-R = -1.12 \pm 0.09$

NOVASAGITTARII 1992 No. 3

Further photometry (cf. *IAUC* 5642) by Gilmore: Oct. *24.38* UT, $V = 8.92 \pm 0.04$, $B-V = -0.40 \pm 0.03$, $U-B = -0.40 \pm 0.05$, $V-R = -0.56 \pm 0.03$, V-f = +0.87 ± 0.03.

1992 November 3 *Daniel W E. Green*